

LISTING OF THE CLAIMS

1-16. (Canceled)

17. (Previously Presented) A bulk power supply system comprising:

a first bulk power supply;

a second bulk power supply;

at least one isolation diode for hot swapping between said first bulk power supply and said second bulk power supply without disabling the first or second bulk power supply; and an output receiver that receives output from said diode.

18. (Previously Presented) The bulk power supply system of claim 17 wherein each bulk power supply comprises:

a line filter that receives AC input power from a power distribution control assembly;

a rectifier for converting said AC input power into DC power;

a power factor correction circuit to ensure said DC power has at least a predetermined value for power factor;

and a converter that receives said DC power after power factor correction.

19. (Previously Presented) The bulk power supply system of claim 17 wherein said line filter suppresses harmonic signals from reflecting back into AC input lines.

20. (Previously Presented) The bulk power supply system of claim 17 further comprising a control logic for controlling said bulk power supply system.

21. (Previously Presented) The bulk power supply system of claim 20 wherein said control logic sends and receives status information to and from a power monitor via a connector.

22. (Previously Presented) The bulk power supply system of claim 21 further comprising at least one fan for cooling said bulk power supply system.

23. (Previously Presented) The bulk power supply system of claim 22 further comprising at least one bias supply for supplying power to said at least one fan and said control logic.

24. (Previously Presented) The bulk power supply system of claim 18 wherein said power factor correction ensures a power factor of greater than 0.98.

25. (Previously Presented) The bulk power supply system of claim 17 further comprising:

a load share controller to control load sharing in said bulk power supply system.

26. (Previously Presented) A bulk power supply system comprising:

a first converter chain comprising a first line filter, a first rectifier, a first power factor correction, and a first converter;

a second converter chain comprising a second line filter, a second rectifier, a second power factor correction, and a second converter;

at least one isolation diode, wherein said at least one isolation diode switches between said first converter chain and said second converter chain upon failure of one of said converter chains; and

whereby a failure of one converter chain will permit the remaining converter chain to satisfy the load for said bulk power supply system.

27. (Previously Presented) The bulk power supply system of claim 26 wherein switching between said first converter chain and said second converter chain without use of a switch occurs instantaneously.

28. (Previously Presented) A method of providing a supply power output for a user system comprising:

receiving a first AC input from a first AC input line;

receiving a second AC input from a second AC input line;

converting said first AC input and said second AC input into DC power;

adjusting said DC power to ensure that said DC power has at least a predetermined value

for a power factor;

sending said adjusted DC power to at least two converters, wherein said at least two converters are designated to receive DC power of differing voltage levels;

transmitting outputs of said at least two converters to at least one isolation diode and to an output filter; and

receiving an output from said output filter.

29. (Previously Presented) The method of claim 28, said method further comprising: suppressing harmonic signals from reflecting back to each of said AC input lines.

30. (Previously Presented) The method of claim 28, said method further comprising: providing said output received from said output filter back to a chassis for distribution to other components of said user system.

31. (Previously Presented) The method of claim 28, said method further comprising: sending and receiving status information between a power monitor and said user system via a connector.

32. (Previously Presented) The method of claim 28 wherein said power factor is greater than 0.98.